Calculate the power number, p, as follows:
$p = PI\ gc/(\ rhoL\ d^5\ w^3)$

```
┌─────────────┐
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└─────────────┘
```

Calculate the Schmidt number, ScG, as follows:
$ScG = \mu a/(a\ Da)$

```
┌─────────────┐
│             │
└─────────────┘
```

Calculate the Fronde number, Fr, as follows:
$Fr = d*w^2/gc$

```
┌─────────────┐
│             │
└─────────────┘
```

Calculate kG as follows:
$kG = 1.35 \times 10^{-7}\ Re^{1.42}\ p^{0.4}\ ScG^{0.5}\ Fr^{-0.21}\ Da\ MWa/d,\ (m/s)$

```
┌─────────────┐
│             │
└─────────────┘
```

C.   Calculate the partition coefficient, Keq, as follows:
$Keq = H/[R(T+273)]$

```
┌─────────────┐
│             │
└─────────────┘
```

D.   Calculate the overall turbulent mass transfer coefficient, Kt, as follows, (m/s):
$1/Kt = 1/kL + 1/(Keq*kG)$

```
┌─────────────┐
│             │
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```

E.   Calculate the quiescent mass transfer coefficient, Kq, for the impoundment using Form 5.

```
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│             │
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```

F.   Calculate the overall mass transfer coefficient, KL, for the impoundment as follows:
$KL = (A-At)/A\ *Kq + At*Kt/A$

```
┌─────────────┐
│             │
└─────────────┘
```